Highway 36 | Triangle Lake **Exposure Investigation Public Meeting**

PESTICIDE ANALYTICAL RESPONSE CENTER
(PARC)
US ENVIRONMENTAL PROTECTION AGENCY
(USEPA)
CDC AGENCY FOR TOXIC SUBSTANCES AND
DISEASE REGISTRY
(ATSDR)

Tonight's Agenda

- Welcome and Introductions
- · Update on investigation
- Break
- · Question and Answers
- Break
- Public Comment

Update on the Exposure Investigation

ATSDR Exposure Investigation Report **Environmental Data** OHA Public Health Assessment

Purpose of the Investigation

The purpose of this exposure investigation is to determine if residents of the Highway 36/Triangle Lake area are being exposed to pesticides from local application practices.

Key Questions of the Multi-Agency Exposure Investigation

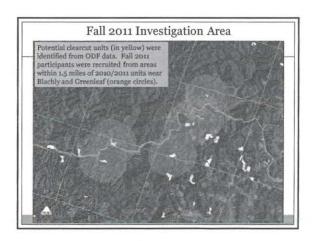
Are residents in the Highway 36/Triangle Lake area being exposed to pesticides?

- o If so, what pesticides are they being exposed to?
- o To what extent are they being exposed?

 What are potential source(s) of the pesticides to which they are being exposed?

 Are these exposures coming from local application practices?
- o What exposure pathways are responsible for these exposures?

Data collection and Agency roles



Fall Sampling Results - Urine

ATSDR and OHA collected 66 urine samples from 38 households between 8/30-31/2011

- None of the participants had atrazine or any of its breakdown products in their urine samples.
- \circ Five of the participants did not have any 2,4,D detected in their urine samples.
- Six participants had levels of 2,4-D that ATSDR considers elevated, as compared to the levels found in the general U.S. population, as reported by NHANES.
- \circ The results ranged from undetectable to 37.33 micrograms per gram (µg/g) of creatinine.

Fall Environmental Sampling

- The USEPA collected drinking water, soil, vegetation, and/or food samples from 38 households
- · Oregon DEQ lab analyzed water samples
- o tested each water sample for over 100 analytes
- ODA lab analyzed all other environmental samples
- \circ Tested samples for the 11 analytes of most concern for forest land applications.

Environmental Sampling Results

· Drinking Water Samples

Detection/Analyte	Concentration (ppb)	Health-Based Screening Value (ppb)	Source of Screening Value	
DEET in domestic well	.0047	3,300	Derived using ATSDR methodology based on RfD developed by Minnesota Department of Health (0.33 mg/kg- day)	
DEET in Little Lake (Surface Water)	.0058	3,300	Derived using ATSDR methodology based on RfD developed by Minnesota Department of Health (0.33 mg/kg- day)	
Hexazinone in domestic spring			EPA regional screening level	
Fluridone in domestic well	,031	2,900	EPA regional screening level	

Environmental Sampling Results

· Soil Samples

Detections in Soil	Analytes Detected	Analyte Concentration (ppm)	Health-based Screening Value (ppm)	Source of screening value
Household 1	Glyphosate	0.081	5,000	ATSDR
	2,4-D	0.046	500	ATSDR
Household 2	2,4-D	0.014	500	ATSDR
Household 3	Glyphosate	3.3	5,000	ATSDR

Environmental Sampling Results

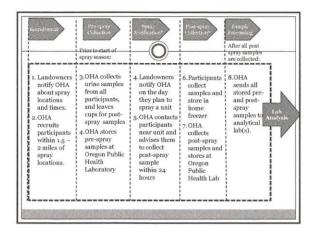


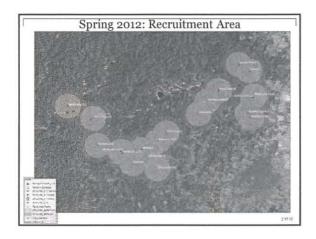
- · Vegetation and Food Samples
 - o Blackberries
 - o Other berries
 - o Garden vegetables
- o Eggs
- o Milk (cow)
- o Honey
- o Vegetation
- No analytes were detected in any of the food or vegetation samples

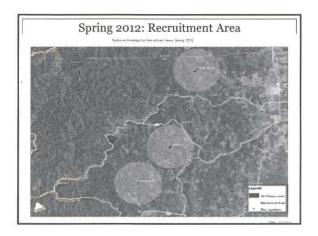
Spring 2012 Sampling Plan

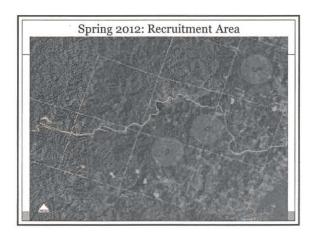


- Participant Recruitment
 - o Identification of harvested areas planned to be treated
 - \star 2,4-D and Atrazine required for urine sampling
 - * 1.5 mile distance from application
 - ▼ Use of aerial application method
- Urine Sampling
- o Pre-Post Aerial application
- · Air Sampling
- o Pre-Post Aerial application using high volume air samplers









Air Testing

- Technical Options
- o Active Sampling v. Passive Sampling
- Timing and Location
- o Active Sampling
- o Passive Sampling

Next Steps

- Plan Fall air sampling
- Analyze pesticide application records
- Complete and release Public Health Assessment Report

OHA Public Health Assessment

- Planned for release in Summer 2012
- Data to be included in PHA
- Fall 2011 biological and environmental data
 Pesticide Application record data
 Review of data contributed by local residents
- Public comment

